

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A scroll display control device including a computer readable medium which stores a program for causing a computer to execute scroll-displaying, in synchronism with reproduction of series information correlated to text information, the corresponding text information on a text display screen, said scroll display control device comprising:

means which changes a scroll speed in said text display screen on the basis of a text quantity of said corresponding text information with respect to reproduction time of said series information,

wherein the display area of said text is fixed at a predetermined reference position of the text display screen,

wherein a scroll speed calculation means calculates said scroll speed of the text on the basis of a time length of a series information section being reproduced, a quantity of the text belonging to a text section corresponding to said series information section, and text display setting information.

2. (currently amended): A scroll display control device including a computer readable medium which stores a program for causing a computer to execute scroll-displaying, in synchronism with reproduction of series information correlated to text information , the

corresponding text information on a text display screen, said scroll display control device comprising:

scroll speed calculation means which calculates a scroll speed on the basis of at least a time length of a series information section presently under reproduction and a quantity of the text belonging to a text section corresponding to the series information section during reproduction and text display setting information; and

control means which scroll-displays the text belonging to the text section at a predetermined reference position of said text display screen according to said scroll speed.

3. (currently amended): The scroll display control device according to Claim 2, further comprising a text display setting information memory which variably stores the text display setting information of the text displayed on said text display screen;

~~wherein said scroll speed calculation means calculates said scroll speed of the text on the basis of the length of the series information section during reproduction, the quantity of the text belonging to the text section corresponding to the series information section during reproduction, and the display setting information.~~

4. (previously presented): The scroll display control device according to Claim 3, wherein said text display setting information memory variably stores a plurality of scroll methods and said control means scroll-displays the text according to the selected scroll method.

5. (previously presented): The scroll display control device according to Claim 3, wherein said text display setting information memory variably stores the predetermined reference position of said text display screen.

6. (previously presented): The scroll display control device according to Claim 3, further comprising a user instruction input means for dynamically changing the text display setting information.

7. (previously presented): The scroll display control device according to Claim 2 or Claim 5, wherein text of a preceding text section which precedes the text section and text of a succeeding text section which succeeds the text section are respectively displayed in two adjacent areas across the text section displayed at the reference position.

8. (previously presented): The scroll display control device according to Claim 2, further comprising a storage means which searchably stores the series information and the text information.

9. (previously presented): The scroll display control device according to Claim 2, wherein the series information and the text information corresponding thereto is acquired by accessing a server which provides the series information and the text information.

10. (currently amended): A scroll display control method comprising:

displaying text information corresponding to sound in a scroll manner, such that the text information is displayed in synchronism with reproduction of the sound by changing a scroll speed adaptable to the sound during reproduction,

wherein the display area of said text information is fixed at a predetermined reference position of a text display screen, and

a scroll speed calculation means calculates said scroll speed of the text on the basis of a time length of a sound information section being reproduced, a quantity of the text belonging to a text section corresponding to said sound information section, and text display setting information.

11. (currently amended): A scroll display control method comprising:

displaying and reading text information corresponding to a picture in synchronism with reproduction of the picture in a scrolling manner, and performing scroll display of said text information in synchronism with the reproduction of the picture information by changing a scroll speed adaptable to the picture under reproduction,

wherein the display area of said text information is fixed at a predetermined reference position of a text display screen, and

a scroll speed calculation means calculates said scroll speed of the text on the basis of a time length of a picture information section being reproduced, a quantity of the text belonging to a text section corresponding to said picture information section, and text display setting information.

12. (previously presented): The scroll display control method according to Claim 11, wherein the text information to be displayed is text information belonging to a text section corresponding to the picture during reproduction and to preceding and succeeding text sections thereof.

13. (previously presented): The scroll display control method according to Claim 11, wherein when a text section corresponding to a picture reproduction position is changed, said scroll speed is derived on the basis of a time length of a picture section corresponding to the picture reproduction position and a text quantity of the text section corresponding to the picture reproduction position.

14. (previously presented): The scroll display control method according to Claim 11 or Claim 13, further including changing a text display setting of the text to be synchronously displayed with reproduction of the picture, and

wherein, when the text display setting of the text is changed, said scroll speed is derived on the basis of the changed text display setting of the text.

15. (previously presented): The scroll display control method according to Claim 14, wherein reproduction of the picture is one of still picture reproduction, n-time reproduction, n-time rewind reproduction, and slow reproduction, where n is an integer equal to or greater than 1.

16. (previously presented): The scroll display control method according to Claim 15, wherein a number of characters displayed in the text section is increased by automatically changing the text display setting when reproduction of the picture is either fast-forward reproduction or at least two-time fast-forward reproduction or rewind reproduction.

17. (previously presented): The scroll display control method according to Claim 15, wherein a number of characters displayed in a text section succeeding the text section corresponding to the picture under reproduction is increased by automatically changing the text display setting when reproduction of the picture is slow reproduction.

18. (currently amended): A computer system for scroll-displaying text information in synchronism with reproduction of picture information correlated to the text information, said computer system comprising:

display means which provides a picture display screen which displays picture information and a text display screen which displays text information corresponding to the picture information;

a program control processor which controls display by said display means of the picture information and the text information ; and

a computer readable medium which stores a program executed by a computer on said program control processor, and

said program comprising:

~~a step of~~ calculating a scroll speed on the text display screen on the basis of at least a time length of a picture section presently under reproduction and a quantity of the text belonging to a text section corresponding to the picture section, and text display setting information; and
~~a step of~~ scroll-displaying the text belonging to the text section at a predetermined reference position of said text display screen according to the scroll speed .

19. (currently amended): A computer-readable medium ~~comprising~~ storing a program for causing a computer to realize series information-ready text display, for scroll-displaying text information on a text display screen in synchronism with reproduction of series information correlated to the text information, said computer program comprising:

~~a step of~~ calculating a scroll speed of the text on the basis of at least a time length of a series information section presently under reproduction, ~~and~~ a quantity of the text belonging to a text section corresponding to the series information section during reproduction, and text display setting information; and

~~a step of~~ scroll-displaying the text belonging to the text section at a predetermined reference position of the text display screen according to the scroll speed .

20. (previously presented): The scroll display control device according to Claim 1, wherein a reproduction time is a time length of said series information.

21. (previously presented): The scroll display control device according to Claim 1, wherein said scroll speed is increased if the text quantity increases with respect to said

reproduction time and said scroll speed is decreased if the text quantity decreases with respect to said reproduction time.

22. (previously presented): The scroll display control method according to Claim 14, wherein the changing of the text display setting includes at least one of changing a display reference position of a target text, changing of a text display area size indicative of a height and a width of a text display area, and changing of a display text character size indicative of a height and a width of a text character.

23. (previously presented): The scroll display control method according to Claim 16, wherein the changing of the text display setting includes at least one of changing a display reference position of a target text, changing of a text display area size indicative of a height and a width of a text display area, and changing of a display text character size indicative of a height and a width of a text character.

24. (previously presented): The scroll display control method according to Claim 17, wherein the changing of the text display setting includes at least one of changing a display reference position of a target text, changing of a text display area size indicative of a height and a width of a text display area, and changing of a display text character size indicative of a height and a width of a text character.

25. (previously presented): The scroll display control device according to Claim 1, wherein the series information is image information or sound information.

26. (previously presented): The scroll display control device according to Claim 1, wherein the text quantity of said corresponding text information is an amount of text corresponding to the series information per unit time.

27. (previously presented): The scroll display control device according to Claim 1, wherein the text quantity of said corresponding text information is a total number of characters included within said corresponding text information.

28. (previously presented): The scroll display control device according to Claim 2, the quantity of the text belonging to the text section corresponding to the series information section is a total number of characters included within the text section.

29. (previously presented): The scroll display control device according to Claim 2, wherein the text belonging to the text section corresponds to a picture section currently under reproduction, the picture section having the time length comprising a predetermined set of frames selected from a plurality of frames which make up the series information.

30. (previously presented): The scroll display control device according to Claim 2, wherein text information is divided into a plurality of text sections, each of the plurality of text sections corresponding to at least one of a different speaker and different sentence, and

the series information is divided into a plurality of picture sections each having a corresponding time length, each time length having at least one of (1) a duration indicated by a starting time and ending time and (2) a set of frames.

31. (previously presented): The scroll display control device according to Claim 30, wherein the plurality of text sections include the text section, a preceding text section which precedes the text section, and a succeeding text section which succeeds the text section, and

the text of the preceding text section and the text of the succeeding text section are respectively displayed simultaneously along with the text section in two adjacent areas across the text section which is displayed at the reference position.